WEJEX

Instructions for Use of Model S Sensitometer

Plug in WEJEX to 110v, 60 cycle line. WEJEX should be placed on work surface or shelf. Care should be taken to block or strap unit to prevent knocking it over in the dark.

Adjust stops with thumb nuts to position exposure where desired - anywhere from the very edge of the film to ½ inch in from the edge. It is generally more desirable to avoid the edge, if possible, to prevent non-representative development effects. Unit is shipped with stops retracted, i.e. with the wedge image in the maximum distance.

After exposing either film or paper in the phototypesetter, contact frame or camera, insert material under pressure plate of WEJEX, emulsion side down. Insert until material hits the two stops squarely. The film edge in the area between the vertical posts should not have been fogged or otherwise exposed. Press button momentarily. A 2½ second exposure cycle is started. The unit will hum slightly during the exposure cycle. When exposure is completed, remove the film or paper. Lift pressure plate when either inserting or removing material. Pressing the button for more than 2½ seconds will produce multiple exposures.

Processing the material either manually or automatically will produce a gray scale along the edge of the film. The exact number of solid black and gray steps depends upon the developer activity, time of development, agitation, temperature, photographic speed of material, contrast, etc. The objective is to determine a standard value which is then maintained, in the case of manual development, by stopping the development when the standard wedge value is reached. In automatic processors or in-the-dark manual development, it is necessary to determine the wedge step after the development is completed. This requires observing trends during production and correcting by controlling time of development or by developer replenishment. If there has been substantial down time, test wedges can be made with the WEJEX on small blank pieces of film or paper and run through the machine to determine the activity of the developer.

It may be of interest to know that moving two steps on the gray scale is equivalent to one half or double the exposure depending upon the direction of the move. **Important:** On successive exposures, to obtain maximum exposure reproducibility, allow at least 10 seconds between exposures for the lamp elements to cool down.

The slide switch on the bottom of the WEJEX unit allows a choice between a high or low light output. In general, operate, if possible, with low light output, to increase the life and stability of the lamp. For some litho emulsions, it may be necessary to use the switch on the high position to produce a wedge step in a useful portion of the gray scale. On the other hand, the low range should produce a workable scale for even high speed films. If it is desired to reduce the light intensity from the value set at the factory, remove plate from bottom of box by unscrewing the four screws near the outside edges of the base plate. Remove top box. Change intensity by sliding the collar on the resistor. This slide wire adjustment will affect only the low position of the slide switch.

For densitometric measurement of an intermediate gray, it may be desirable to eliminate the inherent grain of the silver gray scale in the WEJEX. It is possible to reduce the light intensity using the resistor, until a suitable gray value appears at the clear step of the wedge and then to measure this value. It is also possible to tape a suitably valued gray filter on top of the diffuser plate, which is above the lamp, in order to obtain this same result.

Maintenance and Adjustment: Avoid hitting glass cover plate with a hard object. Pressure plate can be removed by unscrewing acorn nuts on vertical posts. Wipe top surface lightly with damp cloth to clean.

TOBIAS ASSOCIATES, INC.
50 INDUSTRIAL DRIVE, NORTHAMPTON INDUSTRIAL PARK / IVYLAND, PA 18974 / 215 322-1500

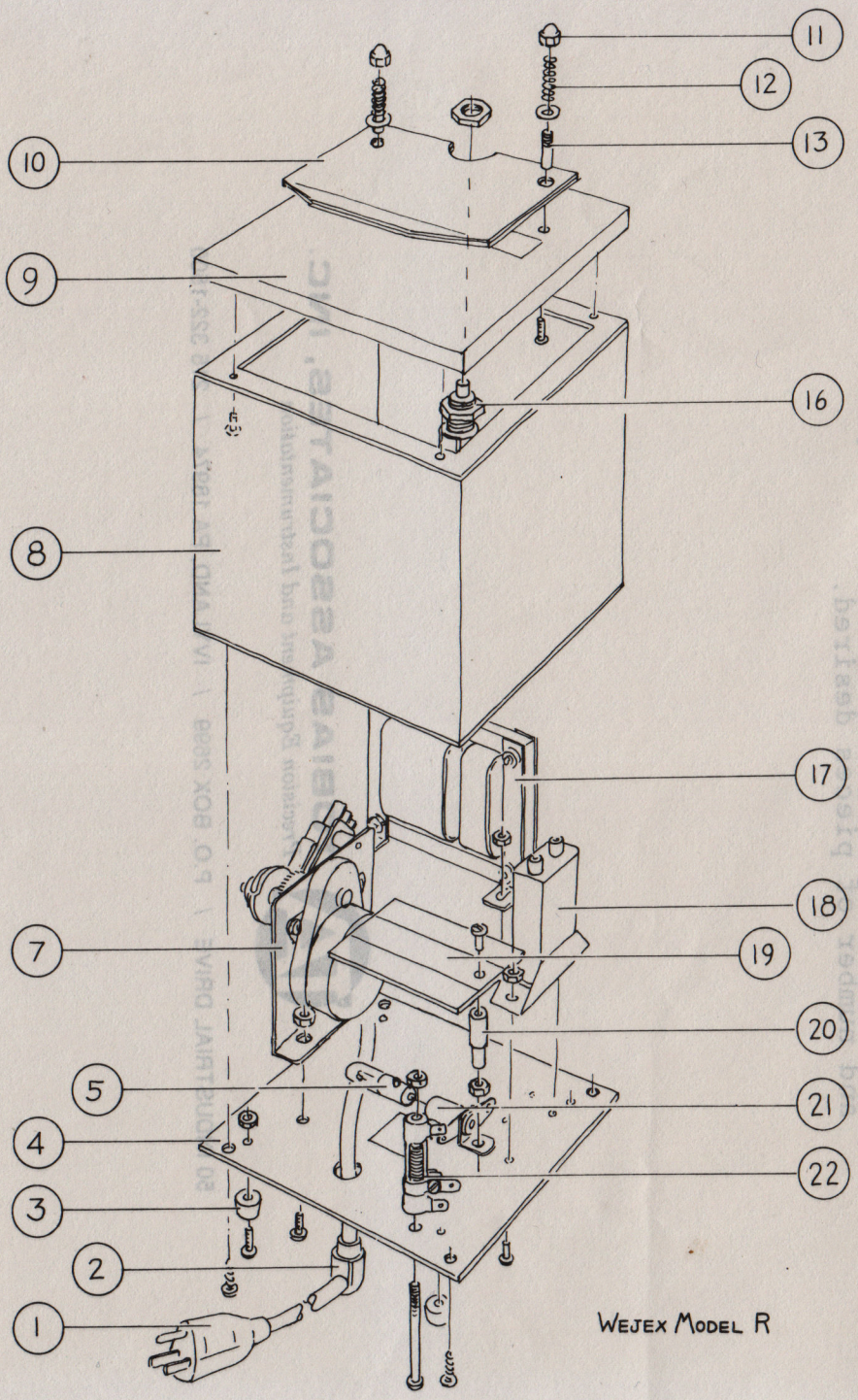
WEJEX
MODELS S, L AND R

ASSEMBLY DRAWINGS
AND
PARTS LIST

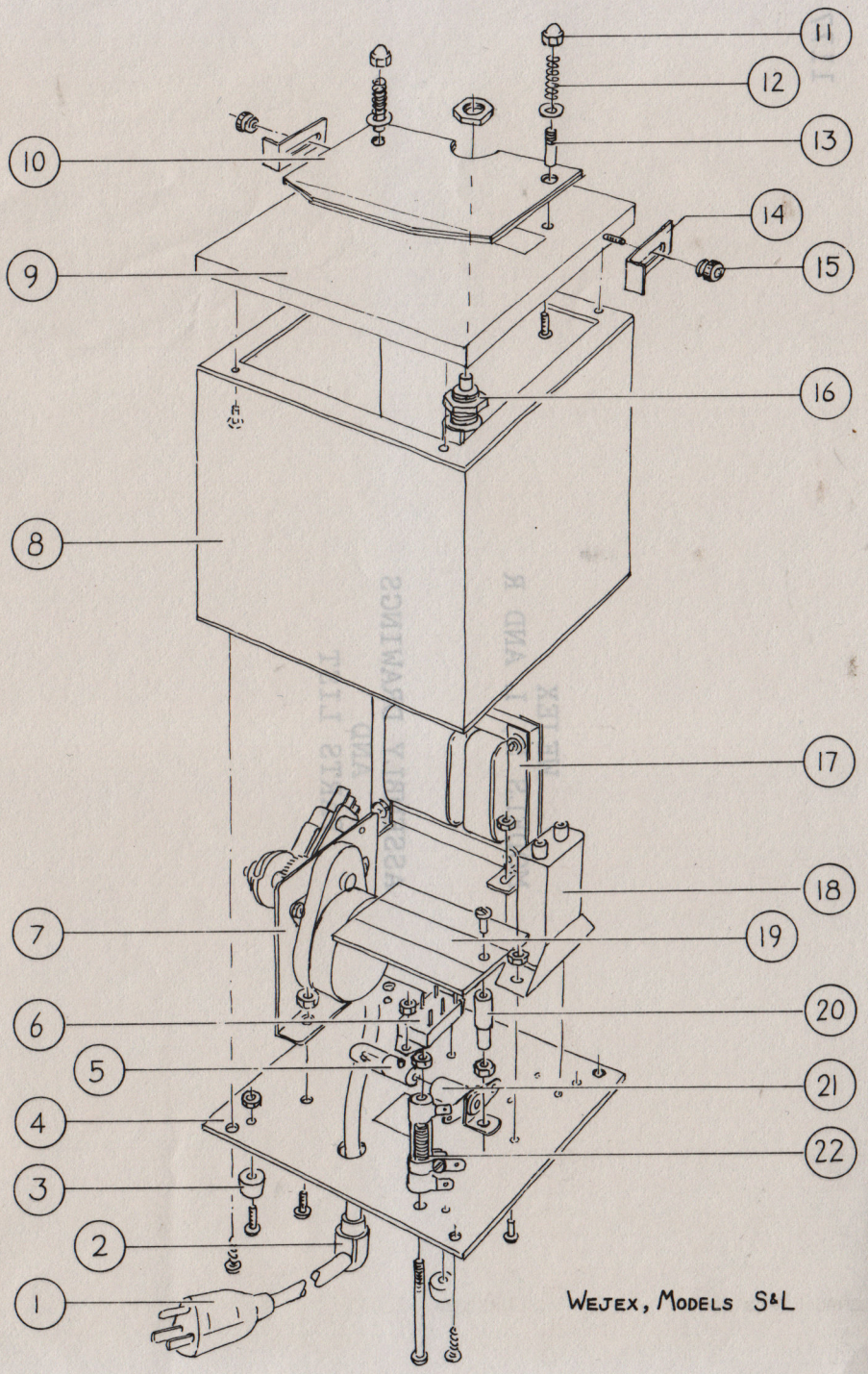
When ordering parts, always supply model, serial and catalog numbers, name of part, and number of pieces desired.

TOBIAS ASSOCIATES, INC.
Precision Equipment and Instrumentation

50 INDUSTRIAL DRIVE / P.O. BOX 2699 / IVYLAND, PA 18974 / 215 322-1500



WEJEX MODEL R



WEJEX, MODELS S&L

WEJEX, MODELS S, L AND R

PARTS LIST

ITEM		DESCRIPTION	CATALOG NO.
1.		Line Cord	162.W0001
2.		Strain Relief	P0022
3.	(4)	Rubber Foot	P0089
4.		Base Plate (Models S & L)	M0402P
		" " (Model R)	M0403P
5.		Bulb	P0127
6.		Slide Switch (Models S & L)	P0134
7.		Program Timer (115 V)	P0129
		" " (230 V)	P0130
8.		Box	M0405
9.		Top Plate (Model S)	A0030
		" " (Model L)	A0031
		" " (Model R)	A0032
10.		Pressure Plate	A0035
11.	(2)	Acorn Nut, 1/4-20	H0112
12.	(2)	Pressure Plate Spring	P0139
13.	(2)	Mounting Stud	M0393
14.		Stop Plate, RH & LH (Set)	L-M0398
		(Models S & L)	R-M0399
15.	(2)	Thumb Nut, 4-40 (Models S & L)	H0184
16.		Push Button Switch	P0133
17.		Transformer 115 V	P0131
		220 V	P0132
18.		Condenser	P0131-1
19.		Diffusing Plate	M0404P
20.		Knurled Post, 6-32	M0400
21.		Socket	P0128
22.		Resistor, 25 OHM, 12W	E0080